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Housing Studies -
Planning Board + etc.

Rate

THE ROLE OF DETERIORATION OF BOSTON'S HOUSING

Service Studies Section
Research Division
Boston City Planning Board
October 1958



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FROM: Brigitte Orent, Research Division

TO: Sid Hodges, Programming Division

SUBJECT: How much renewal action is required in Boston in order to reduce or eliminate substandard housing?

1. At what rate is the city deteriorating?

A. Propositions:

1. The rate of deterioration for units built in a given time period is accelerating and not constant. In other words, a house deteriorates faster as it gets older.

Problem: No census correlates age and substandard condition so that the per cent of units of any given age period which are substandard has had to be estimated.

2. In order to establish a rate you need to measure the change in similar items between two dates.

Problem: The only two censuses giving information on housing, 1940 & 1950, have significantly different definitions of substandard so that the item "needing major repairs" in 1940 cannot be compared with "dilapidated" in 1950 to determine a rate."

When this is attempted, the rate of increase of substandard units (1500 per year for ten years) if carried backward, theoretically would have no substandard units in Boston prior to 1928 - obviously not so. (19,000 in 1940 needing major repairs; deduct 1500/yr.; in twelve years no substandard).

"No reliable data have been obtained to compare the relationship between the 'major repairs' category and the 'dilapidated' category. However, it is the opinion of a number of qualified housing economists that the 1950 concept of 'dilapidation' will generally provide a smaller count of poor housing than the 1940 concept of 'major repairs.' The two terms differ significantly, and the 1940 and 1950 results on condition are not comparable."

1950 United States Census of Housing, Massachusetts,
General Characteristics, p. IX.

3. There is a relationship between age and substandardness.

- a. This relationship is assumed in the Report Of the Urban Renewal Study Board to Mayor D'Alesandro, Jr., Baltimore, Maryland, September 1956. (This Report and its Appendix were guides to this study; but the method employed in the Report can be used only from 1950 forward, while the method outlined below may be applied from any starting point in time).
- b. Clearly other factors in addition to obsolescent or deficient buildings determine blight: incompatible land uses, inadequate community facilities, deficient street patterns, overcrowding of the land, etc. In this study only substandard dwellings were considered.
- c. Furthermore, not all old dwellings are substandard; the percentages in Table I reflect this fact. Nonetheless, older ones tend to be more deteriorated than newer ones.
- d. Finally, fairly good information on the age of dwellings is available in the 1940 census.²

B. Method used to develop Table I: Total number of Dwelling Units & Substandard Units with NO RENEWAL ACTION.
(Essentially the cohort-survival method applied to houses instead of school children).

1. The starting point was the age distribution given in the 1940 census. Since 87.2% of the total du's reported year built, the not-reporting units (26,500) have been distributed in proportion to the frequency of those reporting.

²Despite Twichell's comment:
"Age of dwellings (year built) has been incompletely reported in most areas, is of uncertain accuracy at best, and in some places has been found to have little correlation with other problems."
Alan Twichell, "Measuring the Quality of Housing" p.23, in Urban Redevelopment: Problems & Practices, ed. Coleman Woodbury, 1953.

1. The first of these is the fact that the
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2. Figures were rounded to the nearest 100 and then all age brackets were reduced by a 100 to bring the total closer to the actual (census) total of 211,500.
3. The only empirical clue to the per cent of dwellings deteriorated for a given age period was derived as follows: From the 1950 census it was possible to select census tracts (19 in all) in which 50% or more of the units were built 1920 or later.

The median and average per cent "dilapidated and/or no private bath" for these nineteen tracts was 1.3% and 6.4%, respectively.

4. The per cents deteriorated for the given age periods were "fudged in," with only the above clue as a guide, so that the total number of deteriorated units in 1940 and 1950 approximated the number given in the census as "Needing major repairs" (1940 Census: 19.1%), "dilapidated" (1950 Census 15.5%) in the respective years.

This "fudging" took into account the accelerating aspect of deterioration.

The percent deteriorated in 1940 & 1950 according to Table I, 12.1% and 16.7% respectively, is slightly higher than the census percentages, therefore, a slightly higher standard of deterioration is reflected in the Table than in the censuses.

5. Conversions were added, 1,000 each decade in each of four age brackets: 20 - 30; 30 - 40; 40-50; 50-60. 4000/decade was based on an average number of 400 legal conversions per year 1952-1957.
6. Demolitions were based on an average annual of 800 plus 50 legal reverse conversions 1952-1957: (850 x 10 years = 8,500 per decade). Based on estimates in Baltimore, 46% of these will be for capital improvements (including public housing) and 54% will be for redevelopment clearance. Only the former 46% were removed from the housing stock in this analysis (3,940 per decade) since the purpose of the analysis was to determine the other 54%, i.e., how many must be cleared for redevelopment.

A reverse conversion changes a dwelling from a residential to a non-residential use.

Projections for demolitions, new construction, conversions, and reverse conversions are based on the activity in these categories 1952-1957, obtained from Boston Building Department records.

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The 3,900 were deducted from the last three age brackets - 1300 each per decade.

7. 9,000 dwelling units were added on the top for new construction. This assumes that levels of prosperity and construction will continue as they have the past five years. (Average annual new construction 1952-1957:890)
8. Beginning with 1940, dwellings in each age bracket were brought forward or carried backward, subtracting demolitions and adding new construction and conversions for the years after 1940 and reversing the procedure for the years before 1940.
9. The total number of dwelling units for the period 1900-1930 can be estimated by dividing the total population for these census years by an estimated number of persons per dwelling, as follows:

1900	-	5.0	persons
1910	-	4.5	"
1920	-	4.3	"
1930	-	4.0	"

These estimates are indicated in parentheses on Table I.

10. "Dwellings built before 1860" is an open-ended category. In 1900 some in this category were only 40 years old; thus the per cent deteriorated in this category has been adjusted for the years before 1940.

II. How many dwellings will require special treatment?

A. Propositions:

1. Dwellings which are substandard and over 70 years old should be demolished.⁴

The National Housing Agency pamphlet Housing Costs, 1944, refers to 40 years as a "reasonable average effective life" of homes (p.27) but adds that "... we have, on the average over the past century, been producing houses which have an actual physical life of from 60 to 80 years, unless unusual maintenance measures are taken." (p. 29) The Housing and Home Finance Agency pamphlet How Big Is The Housing Job, 1951, suggests that the number of dwelling units requiring replacement is roughly comparable to the number of dwelling units 75 years old or over."

Report of the Urban Renewal Study Board to Mayor D'Alesandro, Baltimore, Maryland, September, 1956. p. 21

2. Dwellings which are substandard and less than 70 years old should be rehabilitated.
3. All dwellings which are not substandard should be conserved.

B. Methods used to develop Table II: Dwelling units by type of Treatment

Needed.

1. Table II was developed from Table I. An example will best illustrate how the figures were obtained: note that deterioration is cumulative; that is, by the time houses are 20-30 years old 3% will have deteriorated. If some of these substandard units are patched up before this age period, less will be substandard.

2. Example:

<u>Age Period</u>	<u>Remarks</u>
1 - 10.....	Moving on a diagonal, begin with the 3,800 units built in 1940. None deteriorate in the first decade.
10 - 20.....	38 of the 3,800 deteriorate in this decade, but are rehabilitated in the 1950's. Thus 3,800 standard units plus 1,000 conversions move on to the 1960's.
20 - 30.....	Of these 3,800 units 38 have already been patched up, leaving (294-38) 206 to be rehabilitated in the 1960's.
30 - 40.....	Add 1,000 for conversions. 6% of the 10,800 units would be bad if nothing had been done heretofore, but 38 and 206 have already been treated; this leaves (648 - 38 - 206 = 354) 354 units to be treated in the 1970's.
40-50;50-60;60-70	Same process.
70-80.....	Since substandard dwellings 70 years old and older are to be demolished, these deteriorated units were subtracted from the total supply in that age bracket passing on to the next decade.
80 and over..	The total number in this category was obtained, for example - 16,800 in 1950, by adding 10,300 and 16,400 (those 70-80, and 80 years and over in the previous decade) and subtracting the substandard dwellings of the 1940's 1,650 and 3,200 which were demolished.

II. The Current Picture

A. What has happened up to 1958?

1. Assume nothing done in 1940's: then by 1950,

13,814	units needed to be rehabilitated
20,510	" " " " demolished
<u>34,324</u>	" were deteriorated

(this corresponds roughly to the 33,000 dilapidated and/or no private bath in 1950 census).

2. 1950-1958

a. Demolition

	20,510 need to be demolished 1950
minus	6,400 (800 du's dem./yr.)
	<u>14,110</u> need to be dem. 1958

b. Rehabilitation

	13,814 need to be rehabilitated
minus	5,000
	<u>8,814</u> need to be rehabilitated 1958

(10,000 Federal public housing units in Boston. Assume 1:1 ratio construction for demolished. Assume half the destroyed units were from the "to be demolished" category and half from the "to be rehabilitated" category).

c. New Additions

222,000	units 1950
10,400	" added (av. annual of 900 new construction and 400 added by conversion)
<u>232,400</u>	

3. "1958 Picture"

232,400	units
8,814	need to be rehabilitated
14,110	" " " demolished

Note: This does not take into account units becoming substandard 1950-58. The "1960 Picture" picks them up, however.

B. "The 1960 Picture"

Total	235,000	(232,400 plus 1300 for two years = 235,000)
Conservation	191,470	
Rehab.	17,200	(8,314 plus 9,105 = 17,919) See Table II, 1960
Demol.	26,330	(14,110 plus 12,220 = 26,330) See Table II, 1960.

Since no special action programs will probably take place in the next two years beyond normal rehabilitation and demolition (assumed 1,000/year for each category), there will be a hold-over into the 1960-1970 decade as follows.

Rehabilitation 15,200

Demolition 24,330

V. How deteriorated should Boston be?

Alternative twenty- and forty- year programs.

A. Total future inventory

Estimated population: 750,000
 (1950: 801,444)
 Estimated persons per dwelling unit. 3.0
 (1950: 3.1)
 Total number of dwelling units required: 250,000
 (1950: 222,047)

This projection applies to all six of the following programs.

B. Twenty year programs (1980)

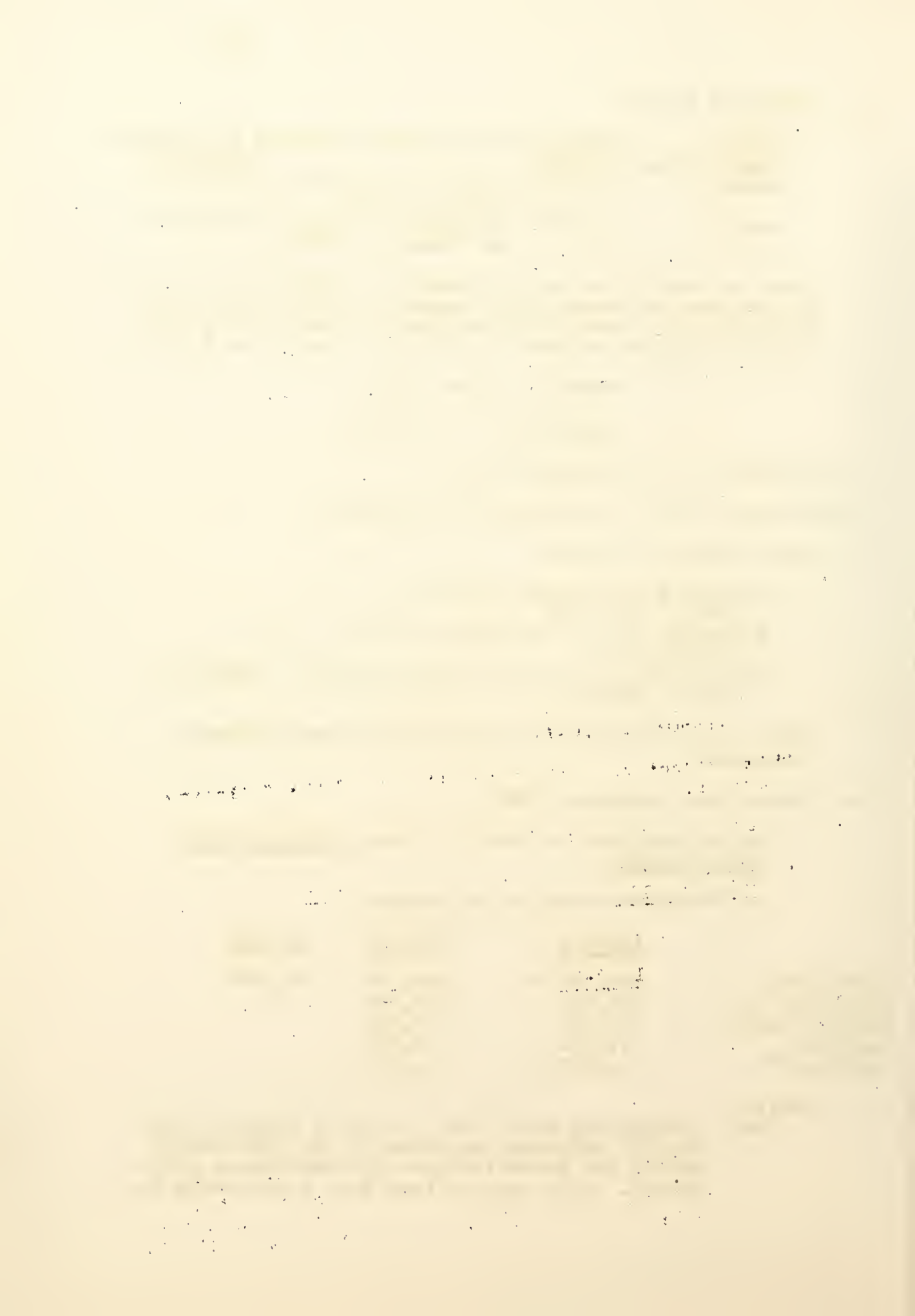
1. Action required in order to have no deteriorated units by 1980.

a. Treatment required by decades:

	<u>1960-70</u>	<u>1970-80</u>	<u>by 1980</u>
Total du's	235,000(a)	246,575	250,000
Conservation	170,827	213,493	
Rehabilitation	23,113	6,447	
Demolish	41,060	26,635	
Addition(b)	11,575(c)	11,575	

Notes:

- (a) Introducing this "real" total in place of the 212,000 indicated on Table II for 1950 should modify the rehabilitation and demolition categories. This has not been done - not worth it.



Notes Cont'd.

(b) In all the following tables, "addition" refers to units which must be added in addition to the 13,000 units added to the housing stock by normal market operations each decade. (900 by new construction; 400 by conversion: annually). Thus, altogether 24,575 units must be added to the existing stock each decade. The 13,000 have been taken into account in developing Tables I and II.
Remember: "addition" means units beyond "normal" market operations.

(c) By 1980 we will be 46,360 units short of 250,000 if all units requiring rehabilitation or demolition are treated by that time. $(250,000 - 203,640 = 46,360)$ By using 235,000 instead of 211,790 as a total inventory in 1960 we are 23,210 ahead of schedule. $46,360 \text{ minus } 23,210 = 23,150$ units which need to be added in addition to normal market operations to get 250,000 units by 1980.

b. Annual treatment: 0%, 1980.

	<u>1960-70</u>	<u>1970-80</u>	<u>Steady program</u> <u>20-yr. period</u>
Conservation	170,827	213,493	192,150
Rehabilitation	2,311	644	1,477
Demolition	4,106	2,663	3,384
Add.	1,157	1,157	1,157

These two decades can be added and divided by 20 to make a steady program for the 20-year period.

2. Action required in order to have only 5% of the dwelling units in 1980 deteriorated.

a. Treatment required by decades

	<u>1960-70</u>	<u>1970-80</u>	<u>1980</u>
Total du's	255,000	246,575	250,000
Consrv.	179,190	217,645	237,500
Rehabilitation	20,010	5,240	1,500
Demolition	35,800	23,690	11,000
Add.	6,315	8,630	

ces:

- a. 12,500 (5%) need not be treated by 1980.
 97,200 (needing treatment in Program 1) minus
 12,500 = 84,700 that need to be treated. Divided
 proportionately (see Program 1)

Reb: 23 6) gives the above distribution
 Dem: 41 27)

- b. Add.: (1) 41,060 - 35,800 (what should have been
 minus what actually was demolished) = 5,260 (in
 need of demo. but still used)
 11,575 - 5,260 = 6,315 (new construction needed
 minus units not demol. = units needed)

$$(2) \quad 26,635 - 23,690 = 2,945$$

$$11,575 - 2,945 = 8,630$$

b. Annual treatment: 5%, 1980.

	<u>1960-70</u>	<u>1970-80</u>	<u>Steady Program</u>
Consrv.	179,190	217,645	198,410
Rehabilitation	2,001	524	1,262
Demolition	3,580	2,369	2,974
Add.	631	863	747

3. Action required to hold the line at 15% of the dwelling units in 1980 deteriorated.

a. Treatment required by decades

	<u>1960-70</u>	<u>1970-80</u>	<u>1980</u>
Total du's	255,000	246,375	250,000
Conservation	195,600	226,275	212,500
Rehabilitation	14,200	3,700	7,100
Demolition	25,200	16,600	30,400
Add	none (c)	1,540	

Notes:

a. $97,200 - 37,500 = 59,700$ divided proportionately:

Rehab.	23	6
Demo.	41	27

b. Add:

$$(1) \quad 41,060 - 25,200 = 15,860$$

$$15,860 - 11,575 = 4,285$$

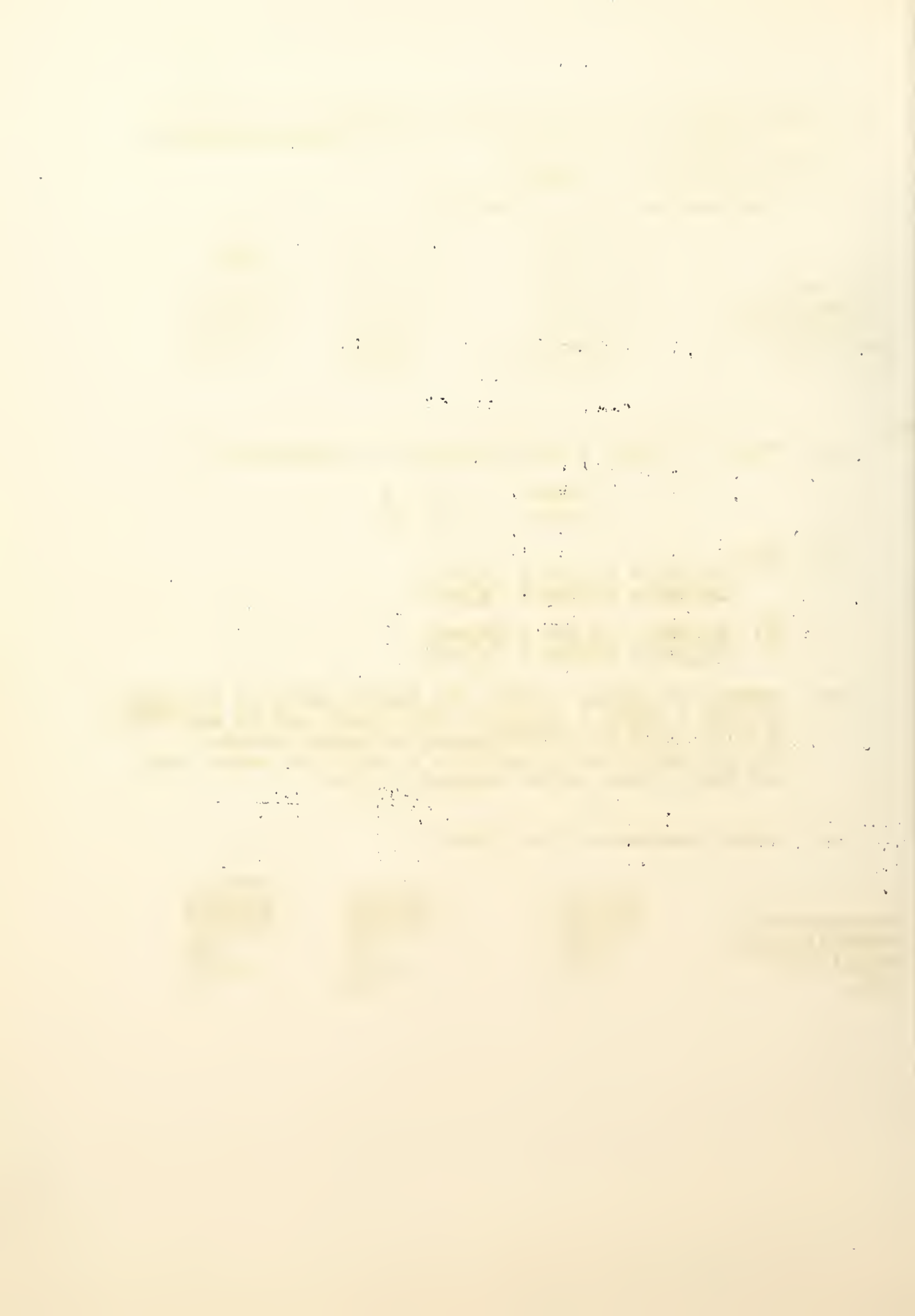
$$(2) \quad 26,835 - 16,600 = 10,035$$

$$11,575 - 10,035 = 1,540$$

c. Instead of adding 13,000, the market needs to add only (13,000 - 4285) = 8,715 in the decade and no additional units need be added because of redevelopment. For the twenty year period as a whole the market must add (8,715 plus 13,000 equals) 21,715.

b. Annual Treatment: 15%, 1980

	<u>1960-70</u>	<u>1970-80</u>	<u>Steady Program</u>
Conservation	195,600	226,275	210,930
Rehabilitation	1,420	370	890
Demolition	2,520	1,660	2,090
Add.	-	154	77



C. Forty-year programs (year 2000)

1. Action required to have no deteriorated units by 2000.

a. Treatment required by decades.

	<u>1960-70</u>	<u>1970-80</u>	<u>1980-90</u>	<u>1990-2000</u>	<u>2000</u>
Total du's	235,000	231,453(a)	225,123	208,888	250,000
Conservation	170,827	198,371	187,276	172,364	
Rehabilitation	23,113	6,447	4,110	2,915	
Demolition	41,060	26,635	33,737	33,609	
Add	21,483(b)	21,483	21,483	21,483	

Notes:

a. 209,970 (1970 total Table II) + 21,483 (added above market) = 231,453

b. 250,000 - 164,068 (2000 total Table II) equals 85,932 divided by 4 decades equals 21,483/decade.

b. Annual Treatment; 0%, 2000

	<u>1960-70</u>	<u>1970-80</u>	<u>1980-90</u>	<u>1990-2000</u>	<u>Steady Program</u>
Conservation	170,827	198,371	187,276	172,364	182,200
Rehabilitation	2,311	644	411	291	914
Demolition	4,106	2,663	3,373	3,360	3,375
Add	2,148	2,148	2,148	2,148	2,148

Notes:

The three programs for 1980 and the three for 2000 are not completely comparable. Since 250,000 units are the end of both the 1980 and the 2000 programs, in the 2000-programs the total inventory by 1980 is less than 250,000.

The two annual treatment programs for 0% by 1980 and 0% by 2000 are the same in the 1960 to 1980 decades. The 2000 program will require action beyond 1980 because dwellings continue to slip down. At the same time that planned and conservation practices may improve sufficiently to prevent some of the deterioration, standards will probably have risen to offset any gain.

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1. *Chlorophyll a* (Chl *a*)

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10. The following are the names of the persons who have been appointed to the various committees of the Board of Directors:

1636-37

2. Action required in order to have only 5% of the dwelling units in 2000 deteriorated

a. Treatment required by decades.

	1960-70	1970-80	1980-90	1990-2000	2000
total dw's	235,000	231,453	225,123	208,888	250,000
nsv	175,500	201,683	189,703	174,398	
habilitation	21,400	5,570	3,720	2,790	690
demolition	38,100	24,200	31,700	31,700	11,810
ad	18,523	19,048	19,446	19,574	

Notes:

- a. 171,626 (total needing treatment by 2000) minus
12,500 = 159,126 divided proportionately:

Rehab. 23 6 4 3
Demo. 41 26 33 33

b. Add:

1. 41,060 - 38,100 = 2,960
21,483 - 2,960 = 18,523

2. 26,635 - 24,200 = 2,435
21,483 - 2,435 = 19,048

3. 33,737 - 31,700 = 2,037
21,483 - 2,037 = 19,446

4. 33,609 - 31,700 = 1,909
21,483 - 1,909 = 19,574

b. Annual Treatment; 5%, 2000

	<u>1960-70</u>	<u>1970-80</u>	<u>1980-90</u>	<u>1990-2000</u>	<u>Steady Program</u>
nsv.	175,500	201,683	189,703	174,398	185,310
habilitation	2,140	557	372	279	1,511
demolition	3,810	2,420	3,170	3,170	3,142
ad	1,852	1,904	1,944	1,957	1,914

3. Treatment required in order to hold the line at 15% of the dwelling units in 2000 deteriorated

a. Treatment required by decades

	<u>1960-70</u>	<u>1970-80</u>	<u>1980-90</u>	<u>1990-2000</u>	<u>2000</u>
Total du's	235,500	231,453	225,123	208,888	250,000
Cons.	184,600	205,973	195,693	180,248	
Rehabilitation	1,000	4,680	3,130	2,340	3,000
Demolition	32,400	20,800	26,300	26,300	34,500
Add	12,823	15,648	14,46	14,174	

Notes:

a. $171,626 - 37,500 = 134,126$ divided proportionately

Rehab: 23 6 4 3
Dem.: 41 26 33 33

b. Add

$$1. \begin{array}{l} 41,060 - 32,400 = 8,660 \\ 21,483 - 8,660 = 12,823 \end{array} \quad 3. \begin{array}{l} 33,737 - 26,300 = 7,437 \\ 21,483 - 7,437 = 14,046 \end{array}$$

$$2. \begin{array}{l} 26,635 - 20,800 = 5,835 \\ 21,483 - 5,835 = 15,648 \end{array} \quad 4. \begin{array}{l} 33,609 - 26,300 = 7,309 \\ 21,483 - 7,309 = 14,174 \end{array}$$

b. Annual treatment : 15%, 2000

	<u>1960-70</u>	<u>1970-80</u>	<u>1980-90</u>	<u>1990-2000</u>	<u>Steady Program</u>
Cons.	184,600	205,973	195,693	180,248	191,650
Reh.	1,800	468	313	234	703
Dem.	3,240	2,080	2,630	2,630	2,645
Add	1,282	1,564	1,404	1,417	1,417

V. SUMMARY

Annual treatment required in steady programs, beginning 1960.

Assumed level of deterioration	0%		5%		15%	
	1980	2000	1980	2000	1980	2000
Year	1980	2000	1980	2000	1980	2000
Conservation	192,150	182,200	198,410	185,310	210,930	191,650
Rehabilitation	1,447	914	1,262	1,511	890	763
Demolition	3,384	3,275	2,974	3,142	2,090	2,645
Addition to stock beyond normal market	1,157	2,148	747	1,914	77	1,417
Addition through market	1,300	1,200	1,300	1,300	1,085 (a)	1,300*
Total addition	2,457	3,448	2,047	3,214	1,162	2,717

Notes:

a. See note (c) in Section IV B3

21,715 in two decades

8,715 in first decade because so little demolition
13,000 in 2nd decade

* (a) does not apply because more new units are needed each decade to have 250,000 by 2000 than by 1980

VI.

A. Comments, limitations, and criticisms.

1. "Deteriorated" and "substandard" are used interchangeably. Neither has been defined. They are slightly more liberal definitions of poor housing than census definitions "needing major repairs" (1940) and "dilapidated" (1950).
2. This study assumes that the current census standards of the conditions of housing will continue. It is well-known that standards of living and housing have been rising. By 1980 or 2000 they may be so much higher that more units than indicated would be substandard. This is likely to be the case if another assumption, namely continued national prosperity, raises incomes and spending power.
3. Really the key to the whole study is the correlation between age and substandardness. It was not possible to test this correlation empirically or statistically since no data was available. The study assumes the probability that an increasing number of dwelling units of any given total number will become deteriorated as time passes. This means that factors developing with time, such as obsolescence, are considered more significant than lack of maintenance, for example.
4. Construction activity in the past five years has been projected for a forty-year period when construction is known to be cyclical.
5. Right and the extent of renewal action required is more extensive than individual units. Standard units in blocks with more than 50% of the units substandard were included in the Baltimore Report in the total number of units requiring treatment. This study has limited itself strictly to the substandard units themselves, paying no heed to those which must be included in any renewal program because of their proximity to deteriorated structures. On the other hand, since this study is concerned with the city as a whole, the per centages of deterioration applied to age brackets reflect deterioration due to proximity. Only in the analysis of specific areas would standard units need to be counted as well.



6. Any "steady program" may not achieve the desired results because leaving units which need treatment untreated in the early decades may mean that more need to be demolished in subsequent years than are scheduled.
7. The correlation between age and condition does not take into account the varying rates of obsolescence or durability of different building materials, dwelling types, and site standards. For instance, small, free standing, brick dwellings may continue to be standard longer than wooden three-deckers on crowded lots built in the same age period.
8. Note that this study deals in dwelling units and not structures. The number of structures which need treatment is considerably less, of course; however, non-residential structures would also require renewal action in addition to those containing dwelling units.
9. As an indication of the order of magnitude, there are 18,870 dwelling units in the Roxbury renewal area of which 1,795 were dilapidated and/or without private bath in 1950. There are about 6,000 dwellings in the Geneva-Talbot area. Assuming the 1800 dilapidated dwellings in the Roxbury area are 70 or more years old, their demolition does not even take care of the annual demolition required to reach the 15% in 1980 mark.

B. Questions raised by the study.

1. What is the cost of each of the six programs to the home-owner, to the city, to the Federal government?

The cost question requires further study. But accept, just to indicate the order of magnitude, from the Baltimore Report (appendix 1) the approximately \$4000 per dwelling unit rehabilitated or demolished. Then, for example, in order to have 5% deterioration by 1980 would cost a total of \$338,880,000 or \$17 million annually; 5% by 2000, total \$744,480,000 or \$18.6 million annually.

2. How would units be added to the housing stock by other than normal market operations?

Does this mean an expansion of public housing? If so, in what form, under whose aegis, etc.?



Vacant buildable land within Boston is rapidly disappearing. Hyde Park, Mattapan, and West Roxbury, areas in which new construction has occurred in the last ten years, will soon be filled up. Where will the "normal market operations" take place in the future? Is the projection of 900 new units annually without government action reasonable? Or must all new buildings in the near future occur in renewal areas with subsidy?

Furthermore, this quantitative study makes no reference to dwelling types. Can the kind of housing which the consumer demands be built under "normal market operations" in Boston in the future?

3. What about all the usual redevelopment problems, e.g. relocation under such huge programs?

The relocation load of any of these programs would be stupendous. "Additions" would absorb
 : some of the relocated families; but on the Summary sheet, the annual demolitions are greater than the total additions to the stock. The Baltimore Report (p. 22) includes in its calculations of the Relocation Load,
 du's demolished
 plus reverse conversions
 plus 10% doubling up in above units
 plus displacement from rehabilitated units involving substantial rent rises.
 plus displacement due to code enforcement.

4. If we don't carry out any of these programs, except maybe "holding the line," what are the consequences for Boston?



November 5, 1958 discussion with Sid Hodges

1. Although dilapidated units may be an adequate measure in the aggregate for the city as a whole since the percentages of dilapidation should take care of all dilapidation, when you analyse an area smaller than the whole - any area - there are bound to be standard units requiring demolition because of their proximity to substandard units. (In Baltimore, blocks with more than 50% of the units substandard were considered completely substandard). Thus, the estimates developed in this study, although valid within its limitations, are too low, too conservative in terms of the actual treatment that will be required in areas throughout the city. When it comes time for an action program, many standard units will also require clearance due to their proximity to substandard ones.
2. It is not wise to release bits of information without interpretation and apart from a fully developed program. These estimates may be too high in terms of a realizable program, they may be too low in terms of actual need. The cost of remedying the situation may also seem out of all proportion unless it is evaluated carefully, for instance, in light of the local contribution that can be made through capital improvements, etc. We should not expose need without indicating the when and how of meeting it.

The federal census definition of substandard may also be questionable in view of the fact, e.g. that in the West End 20% of the units were defective by census definition, when in the end actually 80-90% were found deficient.

TABLE I Total Dwelling Units and Substandard Dwelling Units with NO RENEWAL ACTION

Age of D.U. in years	Per Cent Estimated Deteriorated	Per Cent Constructed 1940 Data	Year Built 1940 Data	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000
1 - 10	0	4.2	1930-40	28,700	44,800	31,400	33,100	8,800	9,000	9,000	9,000	9,000	9,000	9,000 - tot. 0
10 - 20	1	15.2	1920-30	13,900	28,700	44,800	31,400	33,100	8,800	9,000	9,000	9,000	9,000	9,000 - stand 0
20 - 30	3	15.3	1910-20	12,400	14,900	29,700	45,800	32,400	34,100	9,800	10,000	10,000	10,000	9,000 - stand 90
30 - 40	6	22.1	1900-10	10,900	13,400	15,900	30,700	46,800	33,400	35,100	10,800	11,000	11,000	10,000 - stand 300
Oper-ended built before 1860				654	804	954	1,842	2,808	2,004	2,106	648	660	660	660
40 - 50	10	15.0	1890-1900 (30)	19,300	11,900	14,400	16,900	31,700	47,800	34,400	36,100	11,800	12,000	12,000 - stand 1,200
50 - 60	20	8.5	1880-90 (35)		20,300	12,900	15,400	17,900	32,700	48,800	35,400	37,100	12,800	13,000 - stand 2,600
60 - 70	25	7.0	1870-80 (40)		7,105	19,000	11,600	14,100	16,600	31,400	47,500	34,100	35,800	11,500 - stand 2,875
70 - 80	45	5.0	1860-70 (47)			7,600	2,900	3,525	4,150	15,300	30,100	46,200	32,800	34,500 - stand 15,525
80 & over	50	7.8	1860 & before				8,319	4,550	5,760	6,885	13,545	20,790	14,760	15,525 - stand 78,050
Total dwelling units				85,200	134,000	168,100	202,600	211,500	220,600	229,700	238,800	247,900	257,000	266,100
Total number deteriorated				6,955	9,833	13,913	19,515	25,754	37,037	48,875	62,598	78,815	90,820	101,300
% deteriorated				8.1	7.3	8.2	9.6	12.1	16.7	21.2	26.2	31.7	35.3	38.0
No. becoming deteriorated in prev. 10 yrs				2,928	4,080	5,602	6,239	11,283	11,838	13,723	16,217	12,005	10,480	
(Total dwelling units based on census population)				(112,000)	(150,000)	(172,000)	(195,000)							

- total
✓ substandard



Report Binder
Stock No./Color

80571	Black
80572	Lt. Blue
80573	Dk. Blue
80578	Rust
80579	Exec. Red

MADE IN THE USA

